

03500.016239



PATENT APPLICATION

3360

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

TAKESHI IMAMURA ET AL.

Application No.: 10/084,172

Filed: February 28, 2002

For: NOVEL POLYHYDROXYALKANOATE
CONTAINING UNIT WITH PHENYL-
SULFANYL STRUCTURE IN THE SIDE
CHAIN, PROCESS FOR ITS PRO-
DUCTION, CHARGE CONTROL
AGENT, TONER BINDER AND TONER
WHICH CONTAIN NOVEL POLY-
HYDROXYALKANOATE, AND IMAGE-
FORMING METHOD AND IMAGE-
FORMING APPARATUS WHICH MAKE
USE OF THE TONER

) Examiner: Unassigned
Group Art Unit: Unassigned
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May 6, 2002

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

The concise explanation of relevance for the non-English documents is found in the Specification where they are cited, in an abstract, if attached and in corresponding U.S. patent, if provided.

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Pete Saxon

Attorney for Applicants

Registration No. 24947

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New York, New York 10112-3801
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PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
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APPLICANT

TAKESHI IMAMURA ET AL.

FILING DATE

FEBRUARY 28, 2002

GROUP

UNASSIGNED

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4383167	7/83	Holmes, et al.	525	64	
	4442189	4/84	Lu, et al.	430	45	
	4480021	10/84	Lu, et al.	430	106.6	
	4795690	1/89	Shindo, et al.	430	109	
	4876331	10/89	Doi	528	361	
	4925765	5/90	Madeleine	430	110	
	5004664	4/91	Fuller, et al.	430	106.6	
	5135859	8/92	Witholt et al.	435	135	
	5200332	4/93	Yamane, et al.	435	135	
	5292860	3/94	Shiotani, et al.	528	361	
	5612161	3/97	Watanabe, et al.	430	110	
	5667927	9/97	Kubota, et al.	430	109	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
JP	60-108861	6/85	Japan			Abstract
JP	61-3149	1/86	Japan			Abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	Park, et al., "Epoxidation of Bacterial Polyesters with Unsaturated Side Chains. I. Production and Epoxidation of Polyesters from 10-Undecenoic Acid; Macromolecules, <u>31</u> , 5 1480-1486.
	Park, et al., "Epoxidation of Bacterial Polyesters with Unsaturated Side Chains. II. Rate of Epoxidation and Polymer Properties; J. Polym. Sci; Part A; Polym. Chem. <u>36</u> , 2381-2387 (1998).
	Aróstegui, et al., "Bacterial Polyesters Produced by <u>Pseudomonas oleovorans</u> Containing Nitrophenyl Groups"; Macromolecules, <u>32</u> , 9, 2889-2895 (1999).

EXAMINER

DATE CONSIDERED

*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 3

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LIST OF REFERENCES CITED BY APPLICANT(S)
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	JP	63-38958	2/88	Japan			Abstract & USP 4795690
	JP	63-88564	4/88	Japan			Abstract
	JP	2642937	8/97	Japan			Abstract
	JP	5-7492	1/93	Japan			Abstract & USP 5200332
	JP	5-93049	4/93	Japan			Abstract & USP 5292860
	JP	6-15604	3/94	Japan			Abstract & USP 4393167
	JP	6-289644	10/94	Japan			Abstract
	JP	7-72658	3/95	Japan			Abstract
	JP	7-120975	5/95	Japan			Abstract & USP 5667927
	JP	7-14352	2/95	Japan			Abstract & USP 4876331
	JP	7-265065	10/95	Japan			Abstract
	JP	8-19227	2/96	Japan			Abstract & USP 4876331

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

		Takagi, et al., "Biosynthesis of Polyhydroxyalkanoate with a Thiophenoxy Side Group Obtained from <u>Pseudomonas putida</u> ; <u>Macromolecules</u> , <u>32</u> , <u>25</u> , 8315-8318 (1999).
		Fritzche, et al., "An Unusual Bacterial Polyester with a Phenyl Pendant Group"; <u>Makromol. Chem.</u> <u>191</u> , 1957-1965 (1990).

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JP	8-179564	7/96	Japan			Abstract & USP 5612161
JP	8-262796	10/96	Japan			Abstract
JP	2623684	6/97	Japan			Abstract
JP	9-191893	7/97	Japan			Abstract
JP	9-274355	10/97	Japan			Abstract
JP	9-281746	10/97	Japan			Abstract
JP	2807795	10/98	Japan			Abstract
JP	2989175	12/99	Japan			Abstract
JP	2001-178484	7/01	Japan			Abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	Kim, et al., "Preparation and Characterization of Poly(β -hydroxyalkanoates) Obtained from <i>Pseudomonas oleovorans</i> Grown with Mixtures of 5-Phenylvaleric Acid and n-Alkanoic Acids"; <i>Macromolecules</i> , 24, 5256-5260 (1991).
	Lytle, et al., "Filtration Sizes of Human Immunodeficiency Virus Type 1 and Surrogate Viruses Used To Barrier Materials"; <i>Appl. & Environ. Microbiol.</i> , 58, 2, 747-749 (1992).
	Ritter, et al., "Bacterial Production of Polyesters Bearing Phenoxy Groups in the Side Chains, 1 Poly(3-hydroxy-5-pnenoypentanoate-co-3-hydroxy-9-phenoxy-nonanoate) from <i>Pseudomonas oleovorans</i> "; <i>Macrol. Chem. Phys.</i> , 195, 1665-1672 (1994).
	Gross, et al., "Cyanophenoxy-Containing Microbial Polyesters: Structural Analysis, Thermal Properties, Second Harmonic Generation and In-Vivo Biodegradability"; <i>Polymer Int'l.</i> , 39, 205-213 (1996).
	Curley, et al., "Production of Poly(3-hydroxyalkanoates) Containing Aromatic Substituents by <i>Pseudomonas oleovorans</i> ; <i>Macromolecules</i> , 29, 1762-1766 (1996).

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